





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON D C 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

DEC 12 2017

Dr Robert Hamilton Senior Regulatory Scientist Registration and Regulatory Affairs Valent U S A Corporation 1101 14th Street NW Suite 1050 Washington DC 20005

Subject Label Notification per PR Notice 98 10 Esteem 35WP EPA Reg No 59639 115

Dear Dr Hamilton

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98 10 dated September 19 2012 for the product Esteem 35WP EPA Reg No 59639 115 The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98 10 and finds that the action(s) requested fall within the scope of PRN 98 10 The label submitted with the application has (have) been stamped Notification and will be placed in our records

If you have any questions please call Kevin Sweeney at (703) 305 5063

* a. V

Richard Gebken

Product Manager 10

Registration Division (7505P) Office of Pesticide Programs

Enclosure

Please read instructions o	n reverse before comple	a form			Form Approve	-d 080	# No. 20	70.008	Prin	nt Form 👣
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		Application	for P	estici	de Sectio	n I				
1 Company/Product Num 59639 115	ber			2 EPA I Richai	Product Manage rd Gebken	91		3 F	Proposed Clas	
4 Company/Product (Nam Esteem 35 WP (Insect	ne) Growth Regulator)			РМ# 10					None	Restricte
Valent USA Corp 1600 Riviera Ave Suit Walnut Creek CA 945	e 200	ode)	Đ	(b)(i) n to EPA F	edited Revie ny product is s Reg No		or identi	cal in c	omposition	and labeling
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GROUP 7.C INSECTICIDE

[ABN SEIZE™ 35 WP (INSECT GROWTH REGULATOR)]

NOTIFICATION

DEC 1 2 2012

ESTEEM® 35 WP (INSECT GROWTH REGULATOR)

Active Ingredient
Pyriproxyfen
Other Ingredients
Total

By Wt 35 0% 65 0% 100 0%

2 [1 methyl 2 (4 phenoxyphenoxy) ethoxy]pyridine

Esteem® 35 WP Insect Growth Regulator is a wettable powder formula containing 35% active ingredient

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS 5 OUNCES

[ABN NET CONTENTS 4 OUNCES]

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if inhaled swallowed or absorbed through skin. Avoid contact with skin eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling.

FIRST AID

If in eyes

- Hold eye open and rinse slowly and gently with water for 15 20 minutes
- Remove contact lenses if present after the first 5 minutes then continue rinsing eye
- Call a poison control center or doctor for treatment advice

If inhaled

- Move person to fresh air
- If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to mouth if possible
- Call a poison control center or doctor for further treatment advice

If swallowed

- Call a poison control center or doctor immediately for treatment advice
- Have person sip a glass of water if able to swallow
- Do not induce vomiting unless told to do so by the poison control center or doctor
- Do not give anything by mouth to an unconscious person

lf on skin or clothing

- Take off contaminated clothing
- Rinse skin immediately with plenty of water for 15 20 minutes
- Call a poison control center or doctor for treatment advice

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1 800 892 0099 for emergency medical treatment information

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long sleeved shirt long pants and socks plus shoes.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands before eating drinking chewing gum using tobacco or using the toilet
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by disposing of equipment washwaters or rinsate. Avoid direct application and/or spray drift to bee hives

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling

READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS

Do not apply this product in a way that will contact workers or other persons either directly or through drift Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms forests nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training decontamination notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants soil or water is coveralls over long sleeved shirt and long pants waterproof gloves and socks plus shoes

DISCLAIMER RISKS OF USING THIS PRODUCT LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT Read the entire Label including this Disclaimer Risks of Using this Product Limited Warranty and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT rather return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as Buyer) of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include but are not limited to injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions disease moisture conditions irrigation practices condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product cultural practices or the manner of use or application (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage or otherwise affect the crop such that additional care treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW. AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including but not limited to loss of yield increased expenses of farming the crop or such incidental consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label under average use conditions when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE VALENT MAKES NO OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law Valent or Seller is not liable for any incidental consequential indirect or special damages resulting from the use or handling of this product. The limitation includes but is not limited to loss of yield on all or any portion of the treated acreage increased care treatment or other expenses required to take the crop to harvest increased finance charges or altered finance ratings emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW THE EXCLUSIVE REMEDY OF THE BUYER AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS LOSSES INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY CONTRACT NEGLIGENCE TORT STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR AT THE ELECTION OF VALENT OR SELLER. THE REPLACEMENT OF THE PRODUCT

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements. Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty one days from date of planting, or twenty one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law if Buyer does not notify Valent of any claims in such period it shall be barred from obtaining any remedy

NO AMENDMENTS

Valent and Seller offer this product and Buyer accepts it subject to the foregoing **Disclaimer Risks of Using This Product Limited Warranty** and **Limitation of Liability** which may not be modified by any oral or written agreement

TANK MIXES

NOTICE Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user applicator and/or application advisor to the extent allowed by applicable law

Read and follow the entire label of each product to be used in the tank mix with this product

[Optional Warranty/Disclaimer statement to be used when the product is sub registered by Makhteshim Agan of North America Inc.]

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use conditions of warranties and limitations of liability before using this product. If terms are not acceptable return the unopened product container at once. By using this product, user or buyer accepts the following CONDITIONS DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY

CONDITIONS The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury ineffectiveness or other unintended consequences may result because of such factors as weather conditions presence of other materials or the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America. Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES To the extent consistent with applicable law Makhteshim Agan of North America. Inc. makes no other warranties express or implied of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America. Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law. Makhteshim Agan of North America. Inc. disclaims any liability whatsoever for special. incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY To the extent consistent with applicable law the exclusive remedy of the user or buyer for any and all losses injuries or damages resulting from the use or handling of this product whether in contract warranty tort negligence strict liability or otherwise shall not exceed the purchase price paid or at Makhteshim Agan of North America. Inc. is election the replacement of product

WATER SOLUBLE PACKAGING

MULTIPLE PACKAGING

This bag contains multiple water soluble packets of *Esteem* 35 WP Insect Growth Regulator Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to spray tank Do not break open packets. Refer to the Tables of Equivalents to calculate the number of packets to use. If all packets are not used close and reseal outer container to protect remaining packet(s)

SINGLE PACKAGING

This bag contains one water soluble packet of *Esteem* 35 WP Insect Growth Regulator Do not handle the packet with wet gloves or allow the packet to become wet prior to addition to spray tank. Do not break open packet. Refer to the Table of Equivalents to calculate the number of packets to use. Open outer bag by pulling perforated tearstrip and drop the unopened inner packet of *Esteem* 35 WP Insect Growth Regulator into spray tank.

TABLE OF EQUIVALENTS

RATES OF ESTEEM 35 WP PER ACRE	# OF WATER SOLUBLE PACKETS TO TREAT 5 ACRES [ABN 4 ACRES]
3 oz	3
4 oz	4
5 oz	5

GENERAL INFORMATION

Do not apply this product through any type of irrigation system

Esteem 35 WP Insect Growth Regulator is intended for use in Insect Pest Management (IPM) or Insect Resistance Management (IRM) programs Esteem 35 WP Insect Growth Regulator will not control insect adults and it is recommended to be used in combination and/or rotation with other IPM or IRM materials Contact your local state extension service for details

Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP Insect Growth Regulator is an Insect Growth Regulator (IGR) and activity depends on the insect is development, evidence of activity will be slower than typical contact insecticides.

ARTICHOKE (GLOBE)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development evidence of activity will be slower than typical contact insecticides

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

Artichoke Plum Moth		1			
Banded Wing Whitefly Greenhouse Whitefly	2 5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A)			
Sweetpotato Whitefly		HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL			
		Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures)			
		Under severe pressure use the higher recommended rates			
		Only whole fields should be treated			
Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs					
Do not make more than growing season	2 Esteem 35 WP Insec				
Do not apply earlier tha treatment	n 14 days after last Este	em 35 WP Insect Growth Regulator			
Regardless of formulation do not apply more than 0 134 lb pyriproxyfen per acre per season					
Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application					
	Esteem 35 WP Insect Groused insecticides to comp Resistance Management Do not apply within 7 do not make more than growing season Do not exceed 6 oz of Do not apply earlier that treatment Regardless of formulations season Do not plant any crop of areas sooner than 30 do	Esteem 35 WP Insect Growth Regulator may be mused insecticides to comply with local integrated PResistance Management (IRM) programs Do not apply within 7 days of harvest Do not make more than 2 Esteem 35 WP Insect growing season Do not exceed 6 oz of Esteem 35 WP Insect Growing season Do not apply earlier than 14 days after last Este treatment Regardless of formulation do not apply more that season Do not plant any crop other than those with regir			

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

ASPARAGUS

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP Insect Growth Regulator is an Insect Growth Regulator (IGR) and activity depends on the insect s development evidence of activity will be slower than typical contact insecticides.

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Asparagus	Whitefly	2 5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A)
	١		HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures)
			Under severe pressure use the higher recommended rates
			Only whole fields should be treated
	season Do not exceed 6 oz ot	an 2 <i>Esteem</i> 35 WP Insect f <i>Esteem</i> 35 WP Insect Gro	Growth Regulator applications per growing by the Regulator per acre per season arm 35 WP Insect Growth Regulator
	n 0 134 lb pyriproxyfen per acre per season tered pyriproxyfen uses in treated areas		

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

BANANA AND PLANTAIN

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect s development evidence of activity will be slower than typical contact insecticides

ESTEEM 35 WP does exhibit translaminar movement which means that *Esteem* 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Banana Plantain	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	4 to 5 oz	Apply with air or ground equipment in adequate water for uniform coverage By air 3 to 10 gals/A By ground 10 to 50 gals/A HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT
			CONTROL
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures)
			Only whole fields should be treated
	growing season Do not exceed 15 oz Regardless of formula season Do not apply earlier th treatment Do not plant any crop	an 3 Esteem 35 WP Insect of Esteem 35 WP Inse	ect Growth Regulator applications per et Growth Regulator per acre per season than 0 327 lb pyriproxyfen per acre per esteem 35 WP Insect Growth Regulator egistered pyriproxyfen uses in treated areas

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than three applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 4 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

BERRIES (Crop Group 13)

GENERAL ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. *Esteem* 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insects development evidence of activity will be slower than typical contact insecticides.

	<u> </u>	PRODUCT	
CROPS	PESTS	RATE PER ACRE	SPECIAL INSTRUCTIONS
Bushberries Berries Bingleberry Blackberry including Bingleberry Black Satin Berry Boysenberry Cherokee Blackberry Chesterberry Cheyenne Blackberry Coryberry Darrowberry Dirksen thornless berry Himalayaberry Lavacaberry Lowberry Lucretiaberry Mommoth Blackberry Marionberry Nectorberry Olallieberry Oregon Evergreen Berry Phenomenalberry Rangeberry Ravenberry Shawnee Blackberry Youngberry	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	5 oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. Fruitworms: Apply when egg laying begins and again at petal fall. Additional applications of another insecticide at 10 14 day intervals may be needed under high population pressure or sustained moth flight. Lecanium Scale: Apply at either dormant delayed dormant or as an in season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.
Blueberry Currant Elderberry Gooseberry		ecticides to comply	or may be mixed and/or alternated with with local Integrated Pest Management (IPM) RM) programs
Huckleberry Juneberry Lingonberry Loganberry Raspberry	Do not make mor growing season		st 5 WP Insect Growth Regulator applications per WP Insect Growth Regulator per acre per
(black and red) Salal	Do not apply earl Regulator treatme	ent	ter last <i>Esteem</i> 35 WP Insect Growth oply more than 0 218 lb pyriproxyfen per acre

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

BRASSICA LEAFY VEGETABLES (Crop Group 5)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development evidence of activity will be slower than typical contact insecticides

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Brassica Leafy Vegetables Broccoli Broccoli Raab (rapini) Brussels Sprouts Cabbage Cauliflower Cavalo Broccolo Chinese Broccoli (gailon) Chinese Cabbage (bok choy and napa) Chinese Mustard (gai choy) Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	PER ACRE 2 5 to 3 oz Apply with ground equipmen adequate water for uniform coverage (10 to 50 gals/A) HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL Begin applications when whiteflies reach threshold lever University/Extension recommendations (e.g. 3 to adults per leaf and/or equivalevels of immatures) Under severe pressure use higher recommended rates Only whole fields should be	
	applications per grow Do not exceed 6 oz E season Do not apply earlier the Regulator treatment Regardless of formula	an 2 Esteem 35 Willing season Esteem 35 WP Inse han 14 days after la ation do not apply r	P Insect Growth Regulator ct Growth Regulator per acre per ast Esteem 35 WP Insect Growth more than 0 134 lb pyriproxyfen per with registered pyriproxyfen uses in the last application

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

BULB VEGETABLES (Crop Group 3)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development evidence of activity will be slower than typical contact insecticides

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Bulb Vegetables Garlic Garlic Great Headed Leek Onion Dry Bulb Onion Green Onion Welsh Shallot	Onion Thrips Western Flower Thrip	2 5 oz	FOR SUPPRESSION OF THRIPS Apply with ground equipment in adequate water for uniform coverage (20 to 50 gals/A) Begin applications when thrips reach threshold levels per University/Extension Thorough coverage is critical for adequate water volume to ensure thorough coverage		
	Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs Do not apply within 3 days of harvest Do not make more than 2 Esteem 35 WP Insect Growth Regulator applications per growing season Do not exceed 5 oz of Esteem 35 WP Insect Growth Regulator per acre per season Do not apply earlier than 14 days after last Esteem 35 WP Insect Growth Regulator treatment Regardless of formulation do not apply more than 0 134 lb pyriproxyfen per acre per season Do not plant any crop other than those with registered pyriproxyfen uses in treated				

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

CITRUS (Including Ugli Fruit and White Sapote) (Crop Group 10)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect s

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS			
Citrus	Black Scale	5 oz	Apply with ground equipment in 200 to			
Uglı Fruit	Brown Soft Scale California Red Scale		1500 gals/A Apply in sufficient water volume for tree size. Thorough coverage is			
Ognitian	Florida Red Scale		critical for control It is essential to use			
White Sapote	Snow Scale		adequate water volume to ensure thorough coverage			
			Apply anytime prior to fruit becoming			
			Infested when scale is in the crawler stage Thorough coverage is essential for good control			
			Esteem 35 WP Insect Growth Regulator			
			may be applied with superior spray oils at			
			1/2 to 1% Follow the manufacturers directions and recommendations on timing and rates			
			NOTE For scale apply only one			
			application during emergence of scale			
			crawlers per calendar year			
		mply with local Integrate	be mixed and/or alternated with commonly ed Pest Management (IPM) programs and ess			
		J ()				
	Do not apply within					
	ŀ	Do not make more than 1 Esteem 35 WP Insect Growth Regulator application per				
	growing season Do not exceed 5 or	z of <i>Esteem</i> 35 WP Inse	ect Growth Regulator per acre per season			
			ore than 0 134 lb pyriproxyfen per acre per			
	season					

CITRUS (Including Ugli Fruit and White Sapote) (Crop Group 10)-continued

311110 (IIII III III	ng egn i rait ana		TOP CIOUP TO CONTINUCA		
Citrus	Citrus Black Fly	3 oz	Apply with ground application in 200 to		
	Citrus Leafminer		1500 gals/A Apply in sufficient water		
Uglı Fruit	Citrus Whitefly		volume for tree size Thorough coverage is		
	-		critical for control It is essential to use		
White Sapote			adequate water volume to ensure thorough		
·			coverage		
			31.3.3.3		
1			Apply when pests are just beginning to		
			build and before infestation has occurred		
			Thorough coverage is essential for good		
1			control		
	Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly				
	used insecticides to comply with local Integrated Pest Management (IPM) programs and insect Resistance Management (IRM) programs				
	msect resistance man	agement (IIXW) program	15		
	Do not apply within 1 day of harvest				
		than 2 Esteem 35 WP	Insect Growth Regulator applications per		
	growing season				
	Do not exceed 6 oz of Esteem 35 WP Insect Growth Regulator per acre per season				
	Regardless of formulation do not apply more than 0 134 lb pyriproxyfen per acre per				
	season				
	Do not apply earlier than 21 days after last Esteem 35 WP Insect Growth Regulator				
	treatment				

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

COTTON

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects. but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect side development evidence of activity will be slower than typical contact insecticides.

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS			
Cotton	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly	2 5 to 3 oz	Apply with air or ground equipment in adequate water for uniform coverage			
	Sweetpotato Whitefly	Do not apply less than 2 5 oz/A	By Air 3 to 10 gals/A By Ground 10 to 50 gals/A			
			HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL			
			Make only one application per growing season			
			Begin application when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures)			
			Under severe pressure use the higher recommended rates			
			Only whole fields should be treated			
	Only whole fields should be treated Do not apply within 28 days of harvest Do not make more than 1 Esteem 35 WP Insect Growth Regulator application per growing season Do not exceed 3 oz Esteem 35 WP Insect Growth Regulator per acre per season Regardless of formulation do not apply more than 0 067 lb pyriproxyfen per acre per season Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after last application					

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator to one application per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations Read and follow all product labels before applying any insecticide.

CRANBERRY

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP Insect Growth Regulator is an Insect Growth Regulator (IGR) and activity depends on the insect s development evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Cranberry	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	5 oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or at least 20 gals/A by ground) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
			Fruitworms Apply when egg laying begins and again at petal fall Additional applications of another insecticide at 10 to 14 day intervals may be needed under high population pressure or sustained moth flight
			Lecanium Scale Apply at either dormant delayed dormant or an in season cover spray At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.
		with local Integrated Pest N	nixed and/or alternated with commonly used Management (IPM) and Insect Resistance
	season	than 2 <i>Esteem</i> 35 WP Inse	ect Growth Regulator applications per growing
	Do not apply earlier	rthan 14 days after last Es	Growth Regulator per acre per season teem 35 WP Insect Growth Regulator treatment han 0 218 lb pyriproxyfen per acre per season

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

CUCURBITS (Crop Group 9)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development evidence of activity will be slower than typical contact insecticides

ESTEEM 35 WP does exhibit translaminar movement which means that *Esteem* 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Cucurbits Balsam Apple Balsam Pear Bitter Melon Cantaloupe Chayote Chinese Cucumber Chinese Waxgourd Citron Melon Cucumber Edible Gourd Gherkin Momordica spp Muskmelon Pumpkin Summer Squash Watermelon Winter Squash	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2 5 to 3 oz Do not apply less than 2 5 oz/A	Apply with air or ground equipment in adequate water for uniform coverage By air 3 to 10 gals/A By Ground 10 to 50 gals/A HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL Begin application when whiteflies reach threshold levels per University/Extension recommendations (e g 3 to 5 adults per leaf and/or equivalent levels of immatures) Under severe pressure use the higher recommended rates
	growing season Do not exceed 6 oz <i>Est</i> Do not apply earlier tha treatment Regardless of formulati season Do not plant any crop o	a 2 Esteem 35 WP Insect Grown 14 days after last Este on do not apply more the	Only whole fields should be treated of Growth Regulator applications per with Regulator per acre per season are 35 WP Insect Growth Regulator an 0 134 lb pyriproxyfen per acre per istered pyriproxyfen uses in treated ation

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

FRUITING VEGETABLES (Crop Group 8)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development evidence of activity will be slower than typical contact insecticides

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Fruiting Vegetables Eggplant Ground Cherry Okra Pepino Pepper Tomatillo Tomato	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2 5 to 3 oz Do not apply less than 2 5 oz/A of <i>Esteem</i> 35 WP Insect Growth Regulator when used as a stand alone application	Apply with air or ground equipment in adequate water for uniform coverage By Air 3 to 10 gals/A By Ground 10 to 50 gals/A HIGHER WATER VOLUMES PROVIDE IMPROVED INSECT CONTROL Begin application when whiteflies reach threshold levels per University/Extension recommendations (e g 3 to 5 adults per leaf and/or equivalent levels of immatures) Under severe pressure use the higher		
			recommended rates Only whole fields should be treated		
	Banded Wing Whitefly Cabbage Looper Green Peach Aphid Greenhouse Whitefly (immatures & adults) Silverleaf Whitefly Sweetpotato Whitefly Tobacco Hornworm	1 8 to 2 5 oz	Apply as a tank mix with ground equipment for uniform coverage (25 to 150 gals/A by ground) Make application when eggs or insects first appear. If control is needed during this period use an alternate insecticide registered for the target pest. Esteem 35 WP Insect Growth Regulator may also be mixed or alternated with commonly used insecticides to comply with local IPM programs. Comply with all applicable directions restrictions and precautions on the registered tank mix partner label.		
	Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs				
	season Do not exceed 5 oz Este Do not apply earlier that Regardless of formulation	2 Esteem 35 WP Insect Growth Reg n 14 days after last Esteem 35 on do not apply more than 0 10 her than those with registered p	h Regulator applications per growing ulator per acre per season WP Insect Growth Regulator treatment 19 lb pyriproxyfen per acre per season pyriproxyfen uses in treated areas sooner		

continued

FRUITING VEGETABLES (Crop Group 8) continued

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Fruiting Vegetables Tomato	Banded Wing Whitefly Beet Armyworm Fruitworm Greenhouse Whitefly (immatures & adults) Potato Aphid Silverleaf Whitefly Sweetpotato Whitefly Thrips Tomato Pinworm Yellowstriped Armyworm	1 8 to 2 5 oz + Danitol [®] 2 4 EC Spray 10 2/3 fl oz	EARLY SEASON WHITEFLY CONTROL PROGRAM FOR REDUCTION OF GEMINIVIRUS Apply as a tank mix with ground equipment for uniform coverage (10 to 120 gals/A) Make application when scouting first indicates adult whiteflies are on young plants NOTE This may result in treatment immediately following transplanting		
			MID TO LATE SEASON WHITEFLY CONTROL PROGRAM FOR PREVENTION OF IRREGULAR FRUIT RIPENING Apply as a tank mix with ground equipment for uniform coverage (20 to 120 gals/A by ground) Make application when scouting indicates whiteflies are present		
			Esteem 35 WP Insect Growth Regulator may also be mixed or alternated with commonly used insecticides to comply with local IPM programs		
			Comply with all applicable directions restrictions and precautions on the registered label for <i>Danitol</i> 2 4 EC Spray		
	Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs				
	growing season Do not exceed 5 oz Est Do not apply earlier tha treatment Regardless of formulati	eem 35 WP Insect Growth R 1 1	owth Regulator applications per degulator per acre per season 35 WP Insect Growth Regulator 109 lb pyriproxyfen per acre per		
	season Do not plant any crop o sooner than 30 days af		ed pyriproxyfen uses in treated areas		

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

GRAPE

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an insect growth regulator (IGR) and activity depends on the insects development evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS		
Grape	Glassy Winged Sharpshooter Grape Berry Moth Lecanium Scale	5 oz	Apply with ground equipment as a full coverage spray (50 to 200 gals/A) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage Lecanium Scale Apply at either dormant delayed dormant or an in season cover spray. At dormant, delayed dormant, you may		
			use a spray oil at the manufacturer's recommended oil rate. Do not use oil in an in season spray. In a cover spray make applications when scale crawlers first emerge.		
			Follow local recommendations regarding in season use and rates of oil in your area		
	Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs				
	Do not apply within 21 days of harvest Do not make more than 2 Esteem 35 WP insect Growth Regulator applications per growing season				
	Do not exceed 10 oz <i>Esteem</i> 35 WP Insect Growth Regulator per acre per season Do not apply earlier than 14 days after last <i>Esteem</i> 35 WP Insect Growth Regulator treatment Regardless of formulation do not apply more than 0 218 lb active of pyriproxyfen per acre per season				

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) (Crop Group 4)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Leafy Vegetables (Except Brassica Vegetables) Amaranth (Chinese Spinach) Arugula (Roquette) Cardoon Celery Celery Chinese Celtuce Chervil Chrysanthemum Edible Leaved Chrysanthemum Garland Corn Salad Cress Garden Cress Upland Dandelion Dock (Sorrel) Endive (Escarole) Fennel Florence Lettuce Head and Leaf	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2 5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A) HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL Begin applications when whiteflies reach threshold levels per University/Extension recommendations Under severe pressure use the higher recommended rates Only whole fields should be treated
Orach Parsley Purslane Garden Purslane Winter Radicchio (Red Chicory) Rhubarb Spinach New Zealand Spinach Vine Spinach Swiss Chard	season Do not apply earlier th Regulator treatment Regardless of formula acre per season	in 2 Esteem 35 WP Insing season steem 35 WP Insect Grant 14 days after last E tion do not apply more other than those with rhan 30 days after the li	sect Growth Regulator rowth Regulator per acre per steem 35 WP insect Growth than 0 134 lb pyriproxyfen per egistered pyriproxyfen uses in

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

LEAVES OF ROOT & TUBER VEGETABLES

(Crop Group 2)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development evidence of activity will be slower than typical contact insecticides

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Leaves of Root & Tuber Vegetables Beet Garden Burdock Edible Carrot Cassava Bitter Cassava Sweet Celeriac Chervil Turnip Rooted Chicory Dasheen (Taro) Parsnip Radish Radish Oriental (Daikon) Rutabaga Salsify Black Sugar Beet Sweet Potato Tanier Turnip	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2 5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A) HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e g 3 to 5 adults per leaf and/or equivalent levels of immatures) Under severe pressure use the higher recommended rates
Yam True			Only whole fields should be treated
AANA CINC WILLITEEL V DESI	season Do not apply earlier th Regulator treatment Regardless of formula acre per season Do not plant any crop treated areas sooner t Do not allow livestock Do not apply this prod	n 2 Esteem 35 WP Insing season steem 35 WP Insect Grant 14 days after last Entron do not apply more other than those with rhan 30 days after the Ito graze treated areas uct with an adjuvant	sect Growth Regulator rowth Regulator per acre per steem 35 WP Insect Growth than 0 109 lb pyriproxyfen per egistered pyriproxyfen uses in ast application

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

LEGUME VEGETABLES (Succulent or Dried) (Crop Group 6)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects. but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an insect growth regulator (IGR) and activity depends on the insects development evidence of activity will be slower than typical contact insecticides.

Esteem 35 WP Insect Growth Regulator exhibits translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
CROPS Legume Vegetables (any cultivar or Bean (Phaseolus) Field Pea (Pisum) and Soybean) Beans (Lupinus) Grain Lupin Sweet Lupin White Lupin White Sweet Lupin Beans (Phaaseolus) Field Bean Kidney Bean Lima Bean Navy Bean Pinto Bean Runner Bean Snap Bean Tepary Bean Wax Bean Bean (Vigna) Adzuki Bean Asparagus Bean Blackeyed Pea Catjang Chinese Longbean Cowpea Crowder Pea Moth Bean Mung Bean Rice Bean Southern Pea Urd Bean Yardlong Bean	PESTS Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly		SPECIAL INSTRUCTIONS EARLY SEASON WHITEFLY PROGRAM Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures) Under severe pressure use the higher recommended rates Only whole fields should be treated	
Broad Bean (fava) Chickpea (garbanzo) Guar Jackbean				
Lablab Bean	Do not apply within 7	days of harvost		
Lentil			annut Crowth Populator applications per accurate	
Pea (Pisum)		ian z Esteem 35 WP in	sect Growth Regulator applications per growing	
Dwarf Pea	season	Fata 05 MD 1 1 0	Daniella Danielatan ann ann ann ann ann an	
Edible podded Pea			Growth Regulator per acre per season	
			Esteem 35 WP Insect Growth Regulator treatment	
English Pea	Regardless of formu	lation do not apply mor	re than 0 134 lb of pyriproxyfen per acre per season	
Field Pea			registered pyriproxyfen uses in treated areas sooner	
Garden Pea			registered pyriproxyteri dses in treated areas sooner	
Green Pea	than 30 days after the last application			
Snowpea	Do not allow livestock to graze treated areas			
	Do not use on leaum	e vegetables varieties	grown for livestock feed	
Sugar Snap Pea		-3	9	
Pigeon Pea				
Soybean				
Sword Bean				

LEGUME VEGETABLES (Succulent or Dried)(Crop Group 6) continued

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

OLIVE

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Olive	Black Scale San Jose Scale	4 to 5 oz	Apply with ground equipment in 100 to 400 gals/A Apply in sufficient water volume for tree size Thorough coverage is critical for adequate control It is essential to use adequate water volume to ensure thorough coverage		
			Apply at either dormant delayed dormant or an in season cover spray. At dormant delayed dormant use a spray oil at the manufacturer s recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.		
			Under heavy scale pressure use the higher rate of Esteem 35 WP Insect Growth Regulator		
	Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs				
	Do not apply within 7 days of harvest Do not make more than 2 <i>Esteem</i> 35 WP Insect Growth Regulator applications per growing season				
	Do not apply earlier	not exceed 10 oz of <i>Esteem</i> 35 WP Insect Growth Regulator per acre per season not apply earlier than 14 days after last <i>Esteem</i> 35 WP Insect Growth Regulator treatment ardless of formulation do not apply more than 0 218 lb pyriproxyfen per acre per season			

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

PASTURE GRASS AND RANGELAND

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an insect growth regulator (IGR) and activity depends on the insects development evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Pasture Grass and Rangeland	Cricket Grasshopper Locust	2 5 to 3 oz	Apply with air or ground equipment in adequate water for uniform coverage By air 3 to 10 gals/A By Ground 10 to 50 gals/A	
			HIGHER WATER VOLUMES PROVIDE IMPROVED INSECT CONTROL	
			Begin application when pests reach threshold levels per University/Extension recommendations	
			Under severe pressure use the higher recommended rates	
	Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs			
	Do not make more than 2 Esteem 35 WP Insect Growth Regulator applications per growing season Do not exceed 6 oz Esteem 35 WP Insect Growth Regulator per acre per			
	season Regardless of formulation do not apply more than 0 134 lb pyriproxyfen per acre per season			
	Do not apply earlier than 14 days after last <i>Esteem</i> 35 WP Insect Growth Regulator treatment			
		other than those with re than 30 days after the I	gistered pyriproxyfen uses in ast application	

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

PAWPAW

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects. but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect side development, evidence of activity will be slower than typical contact insecticides.

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Pawpaw	Scale Whitefly	4 to 5 oz	Apply 100 to 400 gals/A with ground equipment Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage.		
			Scale Apply at either dormant delayed dormant or an in season cover spray At dormant or delayed dormant use a spray oil at the manufacturer s recommended oil rate Do not use oil in an in season spray		
			In a cover spray make applications when scale crawlers first emerge		
			Under heavy scale pressure use the higher rate of <i>Esteem</i> 35 WP Insect Growth Regulator		
	In season sprays of E blemishes by scale	In season sprays of Esteem 35 WP Insect Growth Regulator may not protect fruit from blemishes by scale			
	used insecticides to c	Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with com- used insecticides to comply with local Integrated Pest Management (IPM) and Inse Resistance Management (IRM) programs			
	Do not apply within 14 days of harvest Do not make more than 3 <i>Esteem</i> 35 WP Insect Growth Regulator appliance growing season				
	Do not apply earli	er than 14 days after last	ect Growth Regulator per acre per season Esteem 35 WP Insect Growth Regulator		
	Regardless of for season	mulation do not apply moi	re than 0 327 lb pyriproxyfen per acre per		

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than three applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 4 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

PINEAPPLE

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects. but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect side development evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pineapple	Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	5 oz	Apply with ground equipment in 20 to 50 gals/A Apply in sufficient water volume for plant size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
			Apply anytime prior to fruit becoming infested when scale is in the crawler stage. Application at the 2 d or 3 d generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control.
			Esteem 35 WP Insect Growth Regulator may be applied with superior spray oils at 1/2 to 1% Follow the manaufacturer's directions and recommendations on timing and rates
		local Integrated Pest Man	ed and/or alternated with commonly used agement (IPM) and Insect Resistance
	year	2 Esteem 35 WP Insect G	Growth Regulator applications per calendar
	Do not apply earlier than	21 days after last Esteer	oth Regulator per acre per season 35 WP Insect Growth Regulator treatment 0 134 lb pyriproxyfen per acre per season

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per calendar year *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

POME FRUIT (Crop Group 11)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects. but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect side development evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pome Fruit Apple Crabapple Loquat Mayhaw Quince	Codling Moth Suppression of Pandemis Leafroller Obliquebanded Leafroller	4 to 5 oz	Apply by ground with airblast equipment in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
			1st Generation Codling Moth Apply at Biofix plus 100 degree days (this is usually close to petal fall) Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications if needed apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of Esteem 35 WP Insect Growth Regulator. Follow local recommendations regarding in season use and rates of oil in your area.
			Obliquebanded and Pandemis Leafrolier Apply to the overwintering larvae at pink to petal fall tree growth stage Esteem 35 WP Insect Growth Regulator does not directly control the larvae but inhibits normal pupation and adult emergence
	Florida Red Scale Lecanium Scale San Jose Scale	4 to 5 oz	Apply by ground with airblast equipment in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
			Apply at delayed dormant through pink For delayed dormant use a superior spray oil at the manufacturer's recommended rate of oil
			Under heavy scale pressure use the higher rate of <i>Esteem</i> 35 WP Insect Growth Regulator
			Scale For control in season make application in cover sprays when scale crawlers first emerge. The use of oil at the crawler emergence stage has been shown to improve control. Follow local recommendations regarding in season use and rates of oil in your area.

continued

POME FRUIT (Crop Group 11) continued

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pome Fruit Apple Crabapple Loquat Mayhaw	Green Apple Aphid Rosy Apple Aphid Spirea Aphid Spotted Tentiform Leafminer Western Tentiform Leafminer	3 to 5 oz	Apply by ground with airblast equipment in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
Quince			Leafminers Apply at peak moth flight for control of 1 ^t or 2 nd generation. This usually occurs at pre pink to pink apple stage for 1 generation and 2 cover for 2 generation.
			Rosy Apple Aphid Apply at 1/2 green apple growth stage
			Green Apple & Spirea Aphid Apply when aphids first appear but before aphids are colonized
			TIMING IS CRITICAL FOR ACCEPTABLE APHID CONTROL
Pear Oriental Pear	Pear Psylla	4 to 5 oz	Apply by ground with airblast equipment in 75 to 400 gals/A with a superior spray oil at manufacturer's recommended rates for the stage of growth. It is essential to use adequate water volume to ensure thorough coverage.
			Apply a single application during the delayed dormant to pink stage of growth at 5 oz/A or make two applications from delayed dormant through petal fall stage of growth at 4 to 5 oz/A Make application just before sustained egg lay is anticipated
			DO NOT USE SKIP ROWS DURING APPLICATION
			For in season control of pear psylla use an insecticide recommended for this use
	Lecanium Scale San Jose Scale	4 to 5 oz	Apply by ground with airblast equipment in 100 to 400 gals/A at delayed dormant with a superior spray oil at the manufacturer's recommended rates. Under heavy scale pressure, use the higher rate.
			Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
			For control of scale in season make application in cover sprays when scale crawlers first emerge. The use of oil at the crawler emergence stage has been shown to improve performance. Follow local recommendations regarding in season use.

continued

POME FRUIT (Crop Group 11) continued

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pome Fruit Pear Oriental Pear	Codling Moth Suppression of Obliquebanded Leafroller Pandemis Leafroller	4 to 5 oz	Apply by ground with airblast equipment in 100 to 400 gals/A 1st Generation Codling Moth Apply at Biofix plus 100 degree days. Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications if needed apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of Esteem 35 WP Insect Growth Regulator. Follow local recommendations regarding in season use and rates of oil in your area. For additional generations apply other insecticides registered for Codling Moth.
	Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs Do not apply within 45 days of harvest Do not make more than 2 Esteem 35 WP Insect Growth Regulator applications per growing season Do not exceed 10 oz of Esteem 35 WP Insect Growth Regulator per acre per season Do not apply earlier than 14 days after last Esteem 35 WP Insect Growth Regulator treatment Regardless of formulation do not apply more than 0 218 lb pyriproxyfen per acre per season		

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

POMEGRANATE

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects. but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect side development evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that *Esteem* 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pomegranate	Banded Wing Whitefly Greenhouse Whitefly	4 to 5 oz	Apply with air or ground equipment in adequate water for uniform coverage
	Silverleaf Whitefly		By air 3 to 10 gals/A
	Sweetpotato Whitefly		By ground 10 to 50 gals/A
			HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures)
			Only whole fields should be treated
	Do not apply within 14 days of harvest Do not make more than 3 Esteem 35 WP Insect Growth Regulator applications per		
	growing season Do not exceed 15 oz of <i>Esteem</i> 35 WP Insect Growth Regulator per acre per season Do not apply earlier than 14 days after last <i>Esteem</i> 35 WP Insect Growth Regulator treatment Regardless of formulation do not apply more than 0 327 lb pyriproxyfen per acre per		
		other than those with reafter the last application	egistered pyriproxyfen uses in treated areas

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than three applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 4 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

ROOT AND TUBER VEGETABLES (Crop Group 1)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects. but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect side development, evidence of activity will be slower than typical contact insecticides.

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Root & Tuber	Banded Wing Whitefly	2 5 oz	Apply with ground equipment in adequate
Vegetables	Greenhouse Whitefly		water for uniform coverage (20 to 50 gals/A)
Arracacha	Silverleaf Whitefly		
Arrowroot	Sweetpotato Whitefly		HIGHER WATER VOLUMES MAY
Artichoke Chinese			PROVIDE IMPROVED INSECT CONTROL
Artichoke Jerusalem			
Beet Garden	1		Begin applications when whiteflies reach
Beet Sugar			threshold levels per University/Extension
Burdock Edible			recommendations (e.g. 3 to 5 adults per leaf
Canna Edible			and/or equivalent levels of immatures)
Carrot			
Cassava (bitter and sweet)	İ	1	Under severe pressure use the higher
Celenac			recommended rates
Chaoyote (root)			
Chervil Turnip rooted			Only whole fields should be treated
Chicory			
Chufa			
Dasheen (taro)			
Ginger			
Ginseng			
Horseradish			
Leren		i	
Parsley Turnip rooted		1	
Parsnip			
Potato			
Radish		i	
Radish Oriental			
Rutabaga			
Salsify	Ì		
Salsify Black	Do not apply within 7 da	vs of harvest	
Salsify Spanish		•	ect Growth Regulator applications per growing
Skirret	season	Z LOIGGIII OO WY T IIISI	ect Growth Regulator applications per growing
Sweet Potato		intoom 25 MD Incom	Crowth Regulator per core per secon
Tanier			Growth Regulator per acre per season
Turmeric		i i4 days aπeriast Es	steem 35 WP Insect Growth Regulator
Turnip	treatment		U 0.400 H
Yam Bean			than 0 109 lb pyriproxyfen per acre per season
Yam True			egistered pyriproxyfen uses in treated areas
	sooner than 30 days after		
	Do not allow livestock to	graze treated areas	

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

SMALL FRUIT VINE CLIMBING CROPS (EXCEPT GRAPE) (Crop Group 13 07E)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect s development evidence of activity will be slower than typical contact insecticides

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Small Fruit Vine Climbing Crops Berry Schisandra Gooseberry Grape Amur River Kiwifruit Fuzzy Kiwifruit Hardy Maypop and cultivars varieties and/or hybrids of these	Scale	5 oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage Apply at either dormant delayed dormant or an in season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.
	with commonly used Management (IPM) and Do not apply with Do not make more applications per Do not exceed 1 acre per season Do not apply ear Growth Regulate Regardless of for per acre per season per acre per season Do not apply ear Growth Regulate Regardless of for per acre per season Do not apply ear Growth Regulate Regardless of for per acre per season Do not apply ear growth Regulate Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear growth Regardless of for per acre per season Do not apply ear acr	insecticides to co and Insect Resista hin 30 days of hard ore than 2 Esteem growing season 0 oz of Esteem 35 clier than 14 days a for treatment ormulation do not a	35 WP Insect Growth Regulator WP Insect Growth Regulator per after last <i>Esteem</i> 35 WP Insect apply more than 0 218 lb pyriproxyfen

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

STONE FRUIT (Crop Group 12)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development evidence of activity will be slower than typical contact insecticides

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Stone Fruit Apricot Cherry Chickasaw Plum Damson Plum Fresh Prune Japanese Plum Nectarine Peach Plum Plumcot Prune	Lecanium Scale San Jose Scale Suppression of Peach Twig Borer Oriental Fruit Moth	4 to 5 oz	Apply in 100 to 400 gals/A with ground equipment Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage. Scale. Apply at dormant delayed dormant or as an in season cover spray. At dormant delayed dormant use a spray oil at the manufacturer's recommended oil rate. Under heavy scale pressure use the higher rate of Esteem 35 WP Insect. Growth Regulator. Peach Twig Borer. Esteem 35 WP Insect Growth Regulator has provided good suppression of Peach Twig Borer.
			when applied delayed dormant through bloom sprays Use a spray oil at the manufacturer s recommended rate for the stage of crop growth
	blemishes by scale Esteem 35 WP Insect (Growth Regulator may mply with local Integrat	be mixed and/or alternated with commonly ed Pest Management (IPM) and Insect
	Do not apply within Do not make more growing season Do not exceed 15 season Do not apply earling Regulator treatme	n 14 days of harvest e than 3 Esteem 35 WF oz of Esteem 35 WP lier than 14 days after land	P Insect Growth Regulator applications per insect Growth Regulator per acre per ist Esteem 35 WP Insect Growth in more than 0 327 lb pyriproxyfen per acre

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than three applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

STRAWBERRY

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Esteem 35 WP is an insect growth regulator (IGR) and activity depends on the insects development evidence of activity will be slower than typical contact insecticides

Esteem 35 WP Insect Growth Regulator exhibits translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Strawberry	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	3 oz	Apply with ground equipment as a full coverage spray (100 to 400 gals/A) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures) Under severe pressure use the higher recommended rates	
			Only whole fields should be treated	
	season Do not exceed 6 oz <i>E</i> Do not apply earlier th Do not plant any crop sooner than 30 days a	,`		

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 3 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

TREE NUTS (Crop Group 14)

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Tree Nuts Almond	Black Scale San Jose Scale Suppression of Peach Twig Borer	4 to 5 oz	Apply with ground equipment in 100 to 400 gals/A Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage. Apply at either dormant, delayed dormant or an in season cover spray. At dormant delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area. Esteem 35 WP Insect Growth Regulator has provided good suppression of Peach.
			Twig Borer when applied delayed dormant through bloom sprays
	Do not make mo growing season Do not exceed 5	oz of Esteem 35 WP Ins	P Insect Growth Regulator application per sect Growth Regulator per acre per season nore than 0 109 lb pyriproxyfen per acre per

continued

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator to one application per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or other chemical classes of insecticides. Follow local state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

TREE NUTS (Crop Group 14) continued

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Tree Nuts Beechnut Brazıl Butternut Cashew Chestnut Chinquapin	Codling Moth Dusky Veined Aphid Walnut Aphid	5 oz	Apply with ground equipment in 100 to 400 gals/A Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.		
Filbert (Hazelnut) Hickory Macadamia Pecan Pistachio Walnut			1st Generation Codling Moth Apply at Biofix plus 100 degree days. Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications if needed apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of Esteem 35 WP Insect Growth Regulator. Follow local recommendations regarding in season use and rates of oil in your area.		
	Black Scale Brown Soft Scale Italian Scale Lecanium Scale San Jose Scale Walnut Scale	4 to 5 oz	Apply with ground equipment in 100 to 400 gals/A at either dormant delayed dormant or an in season cover spray. The addition of a superior spray oil at dormant or delayed dormant may improve scale control. However, do not use a spray oil in oil sensitive crops such as Walnut. Follow		
	Suppression of Peach Twig Borer		manufacturer s recommendations regarding use and rates of oil for your area In a cover spray make applications when		
			scale crawlers first emerge Follow local recommendations regarding in season use and rates of oil in your area		
			Under heavy scale pressure use the higher rate		
			Coverage is essential for good control Apply in sufficient water volume for tree size Use of higher water volume will assure better coverage		
	Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs				
	Do not apply within 21 days of harvest Do not make more than 2 Esteem 35 WP Insect Growth Regulator applications per growing season Do not exceed 10 oz of Esteem 35 WP Insect Growth Regulator per acre per season				
Do not apply earlier than 14 days after last Esteem 35 WP Ins treatment Regardless of formulation do not apply more than 0 218 lb pyr season			-		

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TROPICAL & SUBTROPICAL FRUIT

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development evidence of activity will be slower than typical contact insecticides.

CROPS	PEST	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Tropical & Subtropical Fruit Acerola Atemoya Avocado Biriba Black Sapote Canistel Cherimoya Custard Apple Feijoa Guava Ilama Jaboticaba Longan Lychee Mamey Sapote Mango	Scale	5 oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. Apply at either dormant, delayed dormant or as an in season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.
Papaya Passionfruit Pulasan Rambutan Sapodilla Soursop Spanish Lime Star Apple Starfruit Sugar Apple Wax Jambu	commonly us and Insect Re Do not a Do not more grow Do not e season Do not a Regulato	sed insecticides to complesistance Management apply within 14 days of heake more than 2 Esteem exceed 10 oz of Esteem apply earlier than 14 days treatment ess of formulation do not esteem apply earlier than 14 days treatment	·

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

WATERCRESS

GENERAL Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects. but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an insect growth regulator (IGR) and activity depends on the insects development evidence of activity will be slower than typical contact insecticides.

Esteem 35 WP Insect Growth Regulator exhibits translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Watercress	Sharpshooters Whitefly	2 5 to 3 oz	Apply with ground equipment as a full coverage spray (10 to 50 gals/A) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.	
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations	
			Under severe pressure use the higher recommended rates	
		y with local Integrated	Only whole fields should be treated hay be mixed and/or alternated with commonly used Pest Management (IPM) and Insect Resistance	
	Do not make n growing seaso Do not exceed Do not apply ex treatment Regardless of acre per seaso Do not plant ar areas sooner the	eed 6 oz <i>Esteem</i> 35 WP Insect Growth Regulator per acre per seas ly earlier than 14 days after last <i>Esteem</i> 35 WP Insect Growth Reg		

MANAGING INSECT RESISTANCE Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator no more than two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage disposal or cleaning of equipment

PESTICIDE STORAGE

Store in a cool dry place

Keep pesticide in original container

Keep container closed when not in use

Do not put concentrate or dilute into food or drink containers

Not for use or storage in or around the home

For help with any spill leak fire or exposure involving this material call day or night 800 892 0099

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

CONTAINER DISPOSAL

Nonrefillable outer bag Do not reuse or refill the outer bag Completely empty bag into application equipment. Then dispose the empty bag in a sanitary landfill or by incineration or if allowed by State and local authorities by burning. If burned stay out of smoke

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